nClient BACnet Gateway Server and Manager

Integrating Video Surveillance with Building Management Systems

Gateway Server

Infinique's nClient BACnet Gateway provides an efficient and easy way to integrate Infinique's Video surveillance solution with Building Management Systems using the BACnet protocol. The nClient BACnet Gateway Server receives events and alarms from the video management system and forwards it to a BACnet IP client that is configured to receive them.

The nClient BACnet Gateway Server is installed on a compact small form factor PC running a windows operating system and is configured and managed by Infinique's nClient BACnet Gateway Manager

Gateway Manager

Infinique's nClient BACnet Gateway Manager is a windows based client application software designed for remote administration and configuration of the Gateway Server. Using this application all the discovered devices in the TCP/IP network are mapped as BACnet devices with their events as virtual BACnet objects and are uploaded onto the BACnet Gateway Server. These BACnet objects can be easily mapped by a BACnet client to receive the events generated in the video management system.
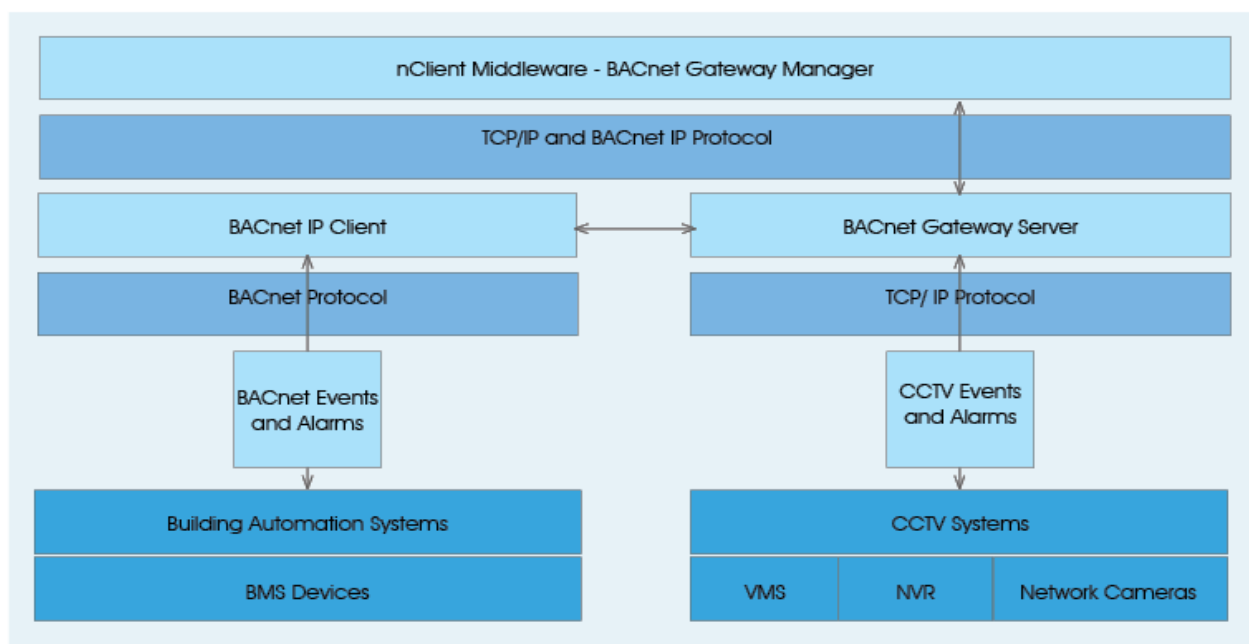
With the BACnet Gateway running 24x7, events from the video system such as Hard Disk failure, Motion Detection in Camera Channel and Alarm events can be monitored and acknowledged instantaneously from the BMS BACnet Client.

Gateway Server Features

- A windows based middleware designed for integrating Video Surveillance with Building Management Systems
- Has BBMD feature for event capturing across interconnected IP subnets
- Supports "Failover Gateway" to provide system redundancy in event of primary gateway failure
- Supports Application Protocol Data Unit (APDU) used for message segmentation
- Binary Input and Binary Output are supported as standard BACnet objects

Application Manager Features

- Supports notification objects with different priority (NORMAL; OFF-NORMAL;FAULT) levels
- Both "Automatic" and "Manual" way of creating BACnet Object mappings supported
- Provides an option to save and upload the gateway configuration file
- Generate and save the gateway configuration report
- Newly installed gateway can be configured by uploading an already saved configuration greatly reducing the time to commission
- Option to generate system message logs

Product specification, design and availability subject to change without prior notice.

Infinique Video Surveillance Solution

nClient BACnet Gateway Server and Manager

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Interoperability

Infinique's Gateway Server is an interoperable system based on open standard such as BCAnet, which allows the control systems manufactured by different vendors to work together by sharing data thereby increase the system flexibility

Data Segmentation

Infinique's Gateway Server has the data segmentation capability and supports both the segmented requests and responses.

Failover Gateway Server

In order to avoid any loss of event tracking in primary gateway, nClient BACnet gateway provides user with an option of associating the primary gateway to the failover gateway. This failover gateway will continuously monitor the primary gateway and provides redundancy in case of primary gateway failure.

nClient Gateway has the capability of automatic failover handling once it is configured. User can setup the failover gateway from the nClient BACnet Gateway Manager Failover interface

Standard Objects

All information within this interoperable BACnet gateway is modeled in terms of one or more information objects. Each object represents some important component of the device, or some collection of information that may be of interest to other BACnet devices.
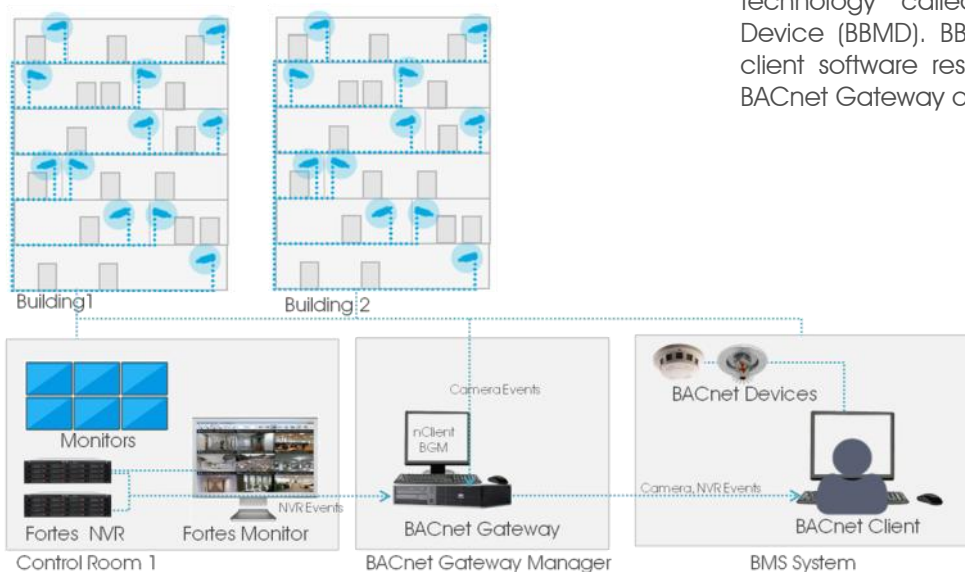
Standard objects supported:

- Analog Input, Analog Output, Analog Value
- Binary Input, Binary Output, Binary Value
- Multi-state Input, Multi-state Output
- Notification Class

Properties Supported:

- Alarm Value
- Event Enable
- Time Delay
- COV (Change Of Value)
- Event Timestamps

Network Option

Infinique's BACnet Gateway has the capability to connect two BACnet systems together by using a networking technology called BACnet Broadcast Management Device (BBMD). BBMD feature is to only support a BMS client software residing on one IP Subnet to access a BACnet Gateway over the other.

ORDERING INFORMATION	
PART NUMBER	**DESCRIPTION**
IS-BACNET-GW1	Infinique nClient BACnet Gateway Server Software for integration of Video Surveillance Systems with BMS BACnet Client
BACnet Gateway	Infinique nClient BACnet Gateway Server for Integration of Video Management System and Building Management System